Tsay, Marsha M.

To: Cancer Treatment using proANP peptides

http://www.medscape.com/content/1999/00/41/72/417235/417235_ref.html

```
ile 411:DIALINDEX(R)

DIALINDEX(R)
   (c) 2004 The Dialog Corporation

*** DIALINDEX search results display in an abbreviated ***
*** format unless you enter the SET DETAIL ON command. ***
? s atrial natriuretic hormone
>>>No files selected.  Use SET FILES to choose at least two files; then use
        SELECT alone to reissue this SELECT statement.
? set file biosci
   You have 24 files in your file list.
   (To see banners, use SHOW FILES command)
? s atrial natriuretic prohormone and cancer

Your SELECT statement is:
   s atrial natriuretic prohormone and cancer

          Items   File
          -----   ----

   No files have one or more items; file list includes 24 files.

? s ANP prohormone

Your SELECT statement is:
   s ANP prohormone

          Items   File
          -----   ----

   No files have one or more items; file list includes 24 files.

? s atrial natriuretic polypeptide?

Your SELECT statement is:
   s atrial natriuretic polypeptide?

          Items   File
          -----   ----
            556     5: Biosis Previews(R)_1969-2004/Sep W3
             59    34: SciSearch(R) Cited Ref Sci_1990-2004/Sep W3
              2    50: CAB Abstracts_1972-2004/Aug
              4    71: ELSEVIER BIOBASE_1994-2004/Sep W3
              1    73: EMBASE_1974-2004/Sep W3
              1   144: Pascal_1973-2004/Sep W3
              2   185: Zoological Record Online(R)_1978-2004/Jul
             14   434: SciSearch(R) Cited Ref Sci_1974-1989/Dec
              1   467: ExtraMED(tm)_2000/Dec

   9 files have one or more items; file list includes 24 files.

? s ANP near cancer

Your SELECT statement is:
   s ANP near cancer

          Items   File
```

```
          -----   ----

   No files have one or more items; file list includes 24 files.

? set file medicine
   You have 26 files in your file list.
   (To see banners, use SHOW FILES command)
? s atrial natriuretic peptide

Your SELECT statement is:
   s atrial natriuretic peptide

          Items   File
          -----   ----
           9010     5: Biosis Previews(R)_1969-2004/Sep W3
           1981    34: SciSearch(R) Cited Ref Sci_1990-2004/Sep W3
            155    48: SPORTDiscus_1962-2004/Sep
           1595    71: ELSEVIER BIOBASE_1994-2004/Sep W3
              2    73: EMBASE_1974-2004/Sep W3
           5082   144: Pascal_1973-2004/Sep W3
             19   156: ToxFile_1965-2004/Sep W3
             48   162: Global Health_1983-2004/Aug
             17   172: EMBASE Alert_2004/Sep W3
             49   266: FEDRIP_2004/Jun
              1   467: ExtraMED(tm)_2000/Dec

   11 files have one or more items; file list includes 26 files.

? s ANP and cancer

Your SELECT statement is:
   s ANP and cancer

          Items   File
          -----   ----
             48     5: Biosis Previews(R)_1969-2004/Sep W3
             69    34: SciSearch(R) Cited Ref Sci_1990-2004/Sep W3
              5    35: Dissertation Abs Online_1861-2004/Aug
              1    65: Inside Conferences_1993-2004/Sep W4
             27    71: ELSEVIER BIOBASE_1994-2004/Sep W3
             86    73: EMBASE_1974-2004/Sep W3
             26    94: JICST-EPlus_1985-2004/Aug W5
              7    98: General Sci Abs/Full-Text_1984-2004/Aug
              9   135: NewsRx Weekly Reports_1995-2004/Sep W3
             28   144: Pascal_1973-2004/Sep W3
             78   149: TGG Health&Wellness DB(SM)_1976-2004/Sep W1
             41   155: MEDLINE(R)_1951-2004/Sep W3
             10   156: ToxFile_1965-2004/Sep W3
             40   159: Cancerlit_1975-2002/Oct
              1   164: Allied & Complementary Medicine_1984-2004/Sep
              3   266: FEDRIP_2004/Jun
              5   399: CA SEARCH(R)_1967-2004/UD=14114
              3   444: New England Journal of Med._1985-2004/Sep W3
              1   467: ExtraMED(tm)_2000/Dec

19 files have one or more items; file list includes 26 files.
```

File 5:Biosis Previews(R) 1969-2004/Sep W4
(c) 2004 BIOSIS

Set Items Description
--- ----- -----------
? s atrial()natriuetic()factor
73318 ATRIAL
21 NATRIUETIC
771011 FACTOR
S1 2 ATRIAL()NATRIUETIC()FACTOR
? s atrial()natriuretic()factor
73318 ATRIAL
24405 NATRIURETIC
771011 FACTOR
S2 6517 ATRIAL()NATRIURETIC()FACTOR
? s s2 and (cancer(3w)treat?)
6517 S2
488484 CANCER
1757002 TREAT?
19906 CANCER(3W)TREAT?
S3 0 S2 AND (CANCER(3W)TREAT?)
? s s2 and cancer
6517 S2
488484 CANCER
S4 7 S2 AND CANCER
? t s4/7/1-7

4/7/1
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013843063 BIOSIS NO.: 200200436574
The transcription factors GATA4 and dHAND physically interact to synergistically activate cardiac gene expression through a p300-dependent mechanism
AUTHOR: Dai Yan-Shan; Cserjesi Peter; Markham Bruce E (Reprint); Molkentin Jeffery D

AUTHOR ADDRESS: Dept. of Molecular Sciences, Pfizer Global Research and Development, 2800 Plymouth Rd., Ann Arbor, MI, 48105, USA**USA
JOURNAL: Journal of Biological Chemistry 277 (27): p24390-24398 July 5, 2002 2002
MEDIUM: print
ISSN: 0021-9258
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: An intricate array of heterogeneous transcription factors participate in programming tissue-specific gene expression through combinatorial interactions that are unique to a given cell-type. The zinc finger-containing transcription factor GATA4, which is widely expressed in mesodermal and endodermal derived tissues, is thought to regulate cardiac myocyte-specific gene expression through combinatorial interactions with other semi-restricted transcription factors such as myocyte enhancer factor 2, nuclear factor of activated T-cells, serum response factor, and Nkx2.5. Here we determined that GATA4 also interacts with the cardiac-expressed basic helix-loop-helix transcription factor dHAND (also known as HAND2). GATA4 and dHAND synergistically activated expression of cardiac-specific promoters from the %%%atrial%%% %%%natriuretic%%% %%%factor%%% gene, the b-type natriuretic peptide gene, and the alpha-myosin heavy chain gene. Using artificial reporter constructs this functional synergy was shown to be GATA site-dependent, but E-box site-independent. A mechanism for the transcriptional synergy was suggested by the observation that the bHLH domain of dHAND physically interacted with the C-terminal zinc finger domain of GATA4 forming a higher order complex. This transcriptional synergy observed between GATA4 and dHAND was associated with p300 recruitment, but not with alterations in DNA binding activity of either factor. Moreover, the bHLH domain of dHAND directly interacted with the CH3 domain of p300 suggesting the existence of a higher order complex between GATA4, dHAND, and p300. Taken together with previous observations, these results suggest the existence of an enhanceosome complex comprised of p300 and multiple semi-restricted transcription factors that together specify tissue-specific gene expression in the heart.

4/7/2

DIALOG(R)File 5:Biosis Previews(R)

0009816461 BIOSIS NO.: 199598284294

%%%Atrial%%% %%%natriuretic%%% %%%factor%%% in gynecologic malignancy

AUTHOR: Fiorica James V; Graham Lloyd; Rao Papineni S (Reprint); Hoffman Mitchel S; Roberts William S; Cavanagh Denis

AUTHOR ADDRESS: Univ. South Florida Coll. Med., 12901 Bruce B. Downs Blvd., Box 18, Tampa, FL 33612, USA**USA

JOURNAL: Obstetrics and Gynecology 85 (5 PART 1): p740-744 1995 1995

ISSN: 0029-7844

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Objective: To determine whether plasma %%%atrial%%% %%%natriuretic%%% %%%factor%%% (ANF) levels are different in patients with gynecologic malignancy compared with those in healthy, nonpregnant women, and if differences do exist, whether chemotherapy plays a role. Methods: We compared the plasma levels of ANF in nonpregnant women free of malignancy (group 1, n = 25) and in patients with malignancy receiving at least one course of platinum-based chemotherapy (group 2, n = 32). To differentiate the contributory role of chemotherapy, another group of patients (group 3, n = 18) was studied before the initiation of chemotherapy. Results: The ANF values (mean + standard error (SE)) in groups 1, 2, and 3 were 7.3 + 0.3, 13.8 + 0.8, and 14.6 + 1.8 fmol/mL of plasma, respectively. Significant differences (P Itoreq .001) occurred between groups 1 and 2 and 1 and 3, but not between 2 and 3. In comparing groups 2 and 3 for a specific type of %%%cancer%%%, there were no significant differences. The respective values (mean + SE) for endometrial, ovarian, and cervical %%%cancer%%% before chemotherapy were 9.9 + 1.7, 15.05 + 2.6, and 18.5 + 4.3 fmol/mL. After chemotherapy, the values remained at 9.3 + 1.5, 15.03 + 1.06, and 14.6 + 2.2 fmol/mL, respectively. Conclusion: Plasma ANF levels in gynecologic

%%%cancer%%% patients were significantly higher than those in healthy, nonpregnant women. Levels were higher before chemotherapy started, thus negating the idea that chemotherapy may initiate the production and release of ANF.

4/7/3

DIALOG(R)File 5:Biosis Previews(R)

0008749653 BIOSIS NO.: 199395051919

%%%Atrial%%% %%%natriuretic%%% %%%factor%%% and arginine vasopressin production in tumor cell lines from patients with lung %%%cancer%%% and their relationship to serum sodium

AUTHOR: Gross Andrew J; Steinberg Seth M; Reilly J Garrett; Bliss David P Jr; Brennan John; Phong Tram Le; Simmons Alfreda; Phelps Ruby; Mulshine James L

AUTHOR ADDRESS: Inq: Bruce E. Johnson, National Cancer Inst.-Navy Med. Oncol. Branch, National Naval Med. Center, Bldg. 8, Rm 5105, Bethesda, Md. 20889-5101, USA**USA

JOURNAL: Cancer Research 53 (1): p67-74 1993

ISSN: 0008-5472

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Patients with lung %%%cancer%%% (n = 263) were studied to determine the relationship among ectopic production of atrial natriuretic factors (ANF) and arginine vasopressin (AVP), serum sodium, and patient outcome. Of 133, 21 (16%) patient with small cell lung %%%cancer%%% (SCLC) had hyponatremia (serum sodium, lt 130 mmol/liter), compared to none of 130 (0%) patients with non-small cell lung %%%cancer%%% (P lt 0.0001). Patients with extensive-stage SCLC and hyponatremia had shorter survival than patients with extensive stage SCLC and normal serum sodium values (P = 0.012). Of the 11 hyponatremic patients with SCLC and tumor cell lines available for study, 9 produced ANF mRNA, 7 to 11 produced AVP mRNA, and 5 of 11 produced both ANF mRNA and AVP mRNA. All 11 cell lines

produced either ANF mRNA and ANF peptide or AVP mRNA and AVP peptide, or both. The quantity of AVP peptide in the tumor cell lines was more closely associated with hyponatremia in the patients (P = 0.0026, r-2 = 0.28) than was the production of ANF peptide (P = 0.066, r-2 = 0.12), although neither association was strong. All tumor cell lines studied from SCLC patients with hyponatremia produce ANF and/or AVP mRNA and peptides.

4/7/4

DIALOG(R)File 5:Biosis Previews(R)

0007848864 BIOSIS NO.: 199192094635

PRELIMINARY STUDY ON BEHAVIOR OF %%%ATRIAL%%% %%%NATRIURETIC%%% %%%FACTOR%%% IN ANTHRACYCLINE-RELATED CARDIAC TOXICITY

AUTHOR: NERI B (Reprint); DE SCALZI M; DE LEONARDIS V; GEMELLI M T; GHEZZI P; PACINI P

AUTHOR ADDRESS: 4TH DEP INTERNAL MEDICINE, ONCOLOGICAL DAY-HOSPITAL, FLORENCE UNIVERSITY, VLE PIERACCINI 18, 50139 FIRENZE, ITALY**ITALY

JOURNAL: International Journal of Clinical Pharmacology Research 11 (2): p 75-82 1991

ISSN: 0251-1649

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: The %%%atrial%%% %%%natriuretic%%% %%%factor%%% (ANF) plays an important role in the pathogenesis of congestive heart failure (CHF), by influencing electrolyte and water balance and by modifying peripheral vascular resistance, thus affecting left ventricular performance. Anthracycline derivatives are glycoside antibiotics active against a wide spectrum of tumours. It is well known that acute and severe does-related delayed cardiotoxicity constitutes the major limitation to their optimal

use. A total of 26 female patients (mean age 53 years) undergoing monochemotherapy for advanced breast %%%cancer%%%, were studied. 4'-Epidoxorubicin (Epidx) 120 mg/m2 intravenously was administred every three weeks for a total of a mean of 6.6 therapeutic cycles (3 to 10). Left ventricular ejection fraction (LVEF) determined by radionuclide ventriculography and circulating ANF were measured periodically in all patients. Epidx administration was limited a cumulative dose ranging between 840 and 1200 mg/m2 because of a 25% decrease in LVEF and due to a progressive rising in ANF plasma levels. Furthermore, two patients presented clinical symptoms of CHF had also significantly increased ANF levels (56 and 49% respectively). The current evidence suggests an important pathophysiological role of ANF in anthracyclinic related CHF. Hopefully measurement of plasma ANF will provide a simple non-invasive method of assessing ventricular dysfunction related to anthracycline cardiac toxicity and might represent an additional objective indicator of the severity of haemodynamic compromise in patients with impaired cardiac function.

4/7/5
DIALOG(R)File 5:Biosis Previews(R)

0007188549 BIOSIS NO.: 199089106440
EXPRESSION OF THE %%%ATRIAL%%% %%%NATRIURETIC%%% %%%FACTOR%%% GENE IN SMALL CELL LUNG %%%CANCER%%% TUMORS AND TUMOR CELL LINES
AUTHOR: BLISS D P JR (Reprint); BATTEY J F; LINNOILA R I; BIRRER M J; GAZDAR A F; JOHNSON B E
AUTHOR ADDRESS: NCI-NAVY MED ONCOLOGY BRANCH, NATL NAVAL MED CENTER, BLDG 8, ROOM 5101, BETHESDA, MD 20814, USA**USA
JOURNAL: Journal of the National Cancer Institute (Bethesda) 82 (4): p 305-310 1990
ISSN: 0027-8874
DOCUMENT TYPE: Article
RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: Hyponatremia in patients with small cell lung %%%cancer%%% can be caused by tumor production of arginine vasopressin (AVP) and result in the syndrome of inappropriate antidiuretic hormone. In evaluating the expression of AVP mRNA from tumor and tumor cell line specimens from five patients with small cell lung %%%cancer%%% and hyponatremia (presumed to have the syndrome of inappropriate antidiuretic hormone), we found that the tumors and tumor cell lines from two of these five patients expressed AVP mRNA. The RNA samples from the three patients with undectable AVP and mRNA expressed abundant %%%atrial%%% %%%natriuretic%%% %%%factor%%% (ANF)
mRNA. Analysis of specimens from three patients with small cell lung %%%cancer%%% and normal serum sodium levels revealed no detectable AVP mRNA expression, and samples from only one of these three patients' specimens expressed detectable ANF mRNA. The AVP and ANF peptide levels in lysate preparations of the tumor cell lines from four of these patients were tested by radioimmunoassay and confirmed the gene expression data. These studies demonstrate ectopic production of ANF mRNA in small cell lung %%%cancer%%% specimens from patients with this %%%cancer%%% and the syndrome of inappropriate antidiuretic hormone. These findings will be of particular interest if future studies demonstrate that ectopic ANF production can cause sodium abnormalities in patients with small cell lung %%%cancer%%%.

4/7/6
DIALOG(R)File 5:Biosis Previews(R)

0006975291 BIOSIS NO.: 199039028680
ECTOPIC %%%ATRIAL%%% %%%NATRIURETIC%%% %%%FACTOR%%% PRODUCTION IN PATIENTS WITH SMALL CELL LUNG %%%CANCER%%% AND HYPONATREMIA
AUTHOR: BRENNAN J (Reprint); BLISS D P; MULSHINE J; IHDE D C; GAZDAR A F; JOHNSON B E

AUTHOR ADDRESS: NCI-NAVY MOB, NATL CANCER INST, BETHESDA, MD, USA**USA

JOURNAL: Clinical Research 38 (2): p247A 1990

CONFERENCE/MEETING: MEETING OF THE ASSOCIATION OF AMERICAN PHYSICIANS, THE
AMERICAN SOCIETY FOR CLINICAL INVESTIGATION, AND THE AMERICAN FEDERATION
FOR CLINICAL RESEARCH, WASHINGTON, D.C., USA, MAY 4-7, 1990. CLIN RES.

ISSN: 0009-9279

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

4/7/7

DIALOG(R)File 5:Biosis Previews(R)

0006453899 BIOSIS NO.: 198937031648

%%%ATRIAL%%% %%%NATRIURETIC%%% %%%FACTOR%%% IS PRODUCED BY SMALL CELL LUNG
%%%CANCER%%% AND IS ASSOCIATED WITH HYPONATREMIA

AUTHOR: BLISS D P (Reprint); BRENNAN J; BATTEY J F; LAI S; MULSHINE J; IHDE D C; GAZDAR A F; JOHNSON B E

AUTHOR ADDRESS: NCI-NAVY MOB, COP, NCI, NIH, BETHESDA, MD, USA**USA

JOURNAL: Clinical Research 37 (2): p465A 1989

CONFERENCE/MEETING: NATIONAL MEETING OF THE AMERICAN FEDERATION FOR
CLINICAL RESEARCH, WASHINGTON, D.C., USA, APRIL 28-MAY 1, 1989. CLIN RES.

ISSN: 0009-9279

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

?

PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

? log y

01oct04 12:46:50 User217744 Session D880.3

$5.67 1.012 DialUnits File5

$12.25 7 Type(s) in Format 7

$12.25 7 Types

$17.92 Estimated cost File5

$2.00 TELNET

$19.92 Estimated cost this search

$19.94 Estimated total session cost 1.309 DialUnits

Logoff: level 04.15.00 D 12:46:50